

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/882,949	06/15/2001	Sami Kekki	796.400USW1	1928	
32294	7590 03/23/2004	EXAM	EXAMINER		
SQUIRE, SA	NDERS & DEMPSEY	KNEPPER,	KNEPPER, DAVID D		
14TH FLOOR 8000 TOWERS CRESCENT			ART UNIT	PAPER NUMBER	
TYSONS CORNER, VA 22182			2654	19	
			DATE MAILED: 03/23/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

. ,6-								
	•	Application	Application No. Applicant(s)					
Office Action Summary		09/882,94	49	KEKKI ET AL				
		Examine	•	Art Unit				
		David D. I		2654	!			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed	on 30 December 2	003.					
·	This action is <b>FINAL</b> . 2b) This action is non-final.							
,—	Since this application is in condition fo	·—		secution as to the	e merits is			
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 1,4 and 6-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1, 4 and 6-14 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9)[	The specification is objected to by the	Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachmen	ut(s)							
	ce of References Cited (PTO-892)		4) Interview Summary					
3) Infor	ce of Draftsperson's Patent Drawing Review (PTomation Disclosure Statement(s) (PTO-1449 or Por No(s)/Mail Date	· · · · · · · · · · · · · · · · · · ·	Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:		O-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Art Unit: 2654

Page 2

Paper #19

1. Applicant's correspondence filed on 30 December 2003 (papers #17-18) has been received and considered. Claims 1, 4 and 6-14 are pending. Claims 2, 3 and 5 have been canceled.

## **Drawings**

2. The objection to the drawings is overcome with the changes to both drawings and the specification. These changes have been approved.

## **Claims**

3. Claims 1, 4 and 6-14 are rejected under 35 USC 102 (a) over Kapadia (5,768,314). The applicant is referred to the previous office action of paper #8 mailed 17 Dec 2002 and the explanation below.

Changes to the claim language are addressed directly below:

"providing first transmission path" (his path from 20 to 13, figure 3);

"providing a second transmission path" (his path from 31 to 26, figure 3);

"transmitting speech parameters" (his <u>speech</u> input at 10 is coded into parameters);

"converting the speech parameters between the first speech coding method and a second speech coding method" (his <u>full rate</u> and <u>half rate codecs</u>, figure 3 – see also columns 1, 3 and 4);

"transmitting the speech parameters at least on a part of the second transmission path using the second speech coding method" (he clearly uses the <u>half rate speech codec</u>

37 on part of the path from 13 to 26 as shown in figure 3).

Art Unit: 2654

Page 3

Paper #19

The applicant's arguments against the teachings of Kapadia are simply not understood. It is well known that various transmission paths exist in mobile communication systems. Kapadia clearly teaches that the speech codec can be at the BTS, Base Station Controller (BSC) or Mobile Switching Centry (MSC) sites (col. 1, lines 51-54). This teaching anticipates a wide variety of path choices for the speech codec to implement conversion to half rate from full rate coding. Kapadia's improvement is to allow desired combinations of full half rate service as taught in column 3, lines 50-65.

The applicant's argument that Kapadia fails to teach "speech coding ... at a lower transmission rate" (page 15) is false based upon his <u>half rate speech codec</u> (figures 2-6).

The applicant's arguments that Kapadia fails to teach that "first transmission path uses a first transmission method ... second transmission path a second speech coding method is used" (page 16) is also not correct. If the applicant were to include particular types of coding methods, this argument might hold water. However, the claims as stated cover any known coding methods. Kapadia teaches in column 1, lines 52-53 the speech codec can be at the BTS (Base Transceiver Site), Base Station Controller (BSC) or Mobile Switching Center (MSC) sites. Therefore, contrary to the applicant's argument, the prior art anticipates different locations and paths for coding methods to change as desired. The BTS communicates with the RF interface directly to the mobile station. Therefore, the prior art anticipates the transmission on the radio path to mobile stations.

The argument that Kapadia does not teach "speech parameters received from the terminal equipment received from the terminal equipment...are converted into speech parameters of the

Art Unit: 2654

Page 4

Paper #19

second speech coding method" is similarly false based on his use of full or half-rate speech coding or decoding as shown in figures 4-6.

In column 1, lines 60-63, Kapadia teaches The algorithms used in the full rate speech codec and the ones currently proposed for the half rate speech codec are completely different.

Hence, the parameters they produce and the parametric to sensitivity ordering are also different.

Thus, contrary to the applicant's argument, the prior art anticipates the use of different coding methods along different paths

Thus, Kapadia clearly anticipates converting between full and half rate speech coding/decoding in various paths within a wireless telephone network.

Claim 14 is rejected under similar arguments as applied to claim 1 as further noted above.

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2654

Page 5

Paper #19

5. Any response to this action should be mailed to:

Box AF

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

TC2600 Fax Center

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington.

VA., Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David D. Knepper whose telephone number is (703) 305-9644.

The examiner can normally be reached on Monday – Thursday from 7:30 a.m to 6:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richemond Dorvil can be reached on (703) 305-9645. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David D. Knepper Primary Examiner

Art Unit 2654